

Title (en)

BATTERY MODULE HOUSING TO WHICH ELECTROMAGNETIC PULSE BONDING TECHNOLOGY IS APPLIED AND METHOD FOR MANUFACTURING SAME

Title (de)

BATTERIEMODULGEHÄUSE, AUF DAS EINE ELEKTROMAGNETISCHE IMPULSVERBINDUNGSTECHNIK ANGEWENDET WIRD, UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

BOÎTIER DE MODULE DE BATTERIE AUQUEL UNE TECHNOLOGIE DE SOUDAGE PAR IMPULSIONS ÉLECTROMAGNÉTIQUES EST APPLIQUÉE ET SON PROCÉDÉ DE FABRICATION

Publication

EP 3614454 A1 20200226 (EN)

Application

EP 18860515 A 20180824

Priority

- KR 20170124419 A 20170926
- KR 2018009836 W 20180824

Abstract (en)

Disclosed is a battery module housing having a rectangular tube structure in which an inner space for accommodating battery cells is formed. The battery module housing includes a first side plate and a second side plate disposed upright to face each other, the first side plate and the second side plate respectively having target portions defined as an upper end and a lower end thereof and spacers vertically protruding from the target portions; and a top plate and a bottom plate respectively disposed horizontally at an upper portion and a lower portion of the first side plate and the second side plate, the top plate and the bottom plate respectively having flyer portions joined to the target portions by means of electromagnetic pulse joining in a state of being supported by the spacers of the first side plate and the second side plate to keep a gap with the target portions.

IPC 8 full level

B23K 20/06 (2006.01); **H01M 50/271** (2021.01); **H01M 50/211** (2021.01); **H01M 50/224** (2021.01)

CPC (source: EP KR US)

B23K 20/06 (2013.01 - EP KR); **H01M 10/482** (2013.01 - EP KR US); **H01M 10/647** (2015.04 - KR); **H01M 50/20** (2021.01 - KR); **H01M 50/211** (2021.01 - KR); **H01M 50/224** (2021.01 - KR); **H01M 50/24** (2021.01 - EP KR); **H01M 50/271** (2021.01 - EP KR US); **H01M 50/211** (2021.01 - EP US); **H01M 50/224** (2021.01 - EP US); **Y02E 60/10** (2013.01 - EP KR)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 10964985 B2 20210330; **US 2019393456 A1 20191226**; CN 110462876 A 20191115; CN 110462876 B 20220322; EP 3614454 A1 20200226; EP 3614454 A4 20200624; EP 3614454 B1 20210217; JP 2020508556 A 20200319; JP 6764036 B2 20200930; KR 102248228 B1 20210503; KR 20190035336 A 20190403; PL 3614454 T3 20210719; WO 2019066266 A1 20190404

DOCDB simple family (application)

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